

Knowledge Organisers

1st Summer Term

Art/DT

Computing

French

Geography

History

PE

PSHE

RE

Science

Lapwings – Year 5

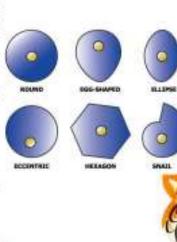
Knowledge Organiser – Moving Toys – DT – Year 5

Key Vocabulary:		
Pulley	A grooved wheel over which a drive belt can run.	
Gear	A wheel with teeth around its circumference.	
Axle	A rod or spindle (either fixed or rotating) passing through the centre of a wheel or group of wheels.	
Frame structure	The fitting together of pieces to give a structure support and shape.	
Reinforce	To strengthen or support (an object or substance), especially with additional material.	
Join	To link or connect two parts together.	
Innovation	The process of creating a new method, idea, product, etc.	
User	The person who will use the new product.	
Purpose	The reason for which something is done or created or for which something exists.	
Design brief	A document for a design project developed by a person or team. They outline the details of the project including any the function, aesthetics, timing and budget.	
Crank	A part of an axle or shaft bent out at right angle used to create movement.	
Cam	Devices which can convert round motion into a straight line motion.	

Key Knowledge: I can explore the shape, patterns and key feature of animals when sketching. I know why prototypes are used.

I understand how different mechanisms, involving cranks and cams, create different movement. I know how triangulation strengthens a structure.

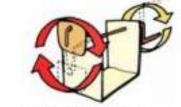
cams

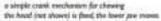


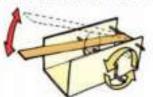
General

- Gears are toothed wheels that lock together and turn one an-
- The wheels are usually different sizes so that one gear speeds up to slow down the rest gear. Gears are also used to change. the direction of movement.





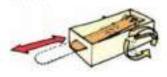




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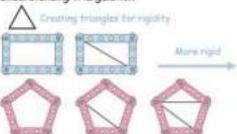


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Knowledge Organiser - Computing – Spreadsheets – Year 5

Key Vocabulary	Definition		
Average	The result of comparing two or more values.		
Copy and Paste	A way to copy information from the screen into the computer's memory and paste it elsewhere without re-typing.		
Columns	Vertical reference points for the cells in a spreadsheet.		
Cells	An individual section of a spreadsheet grid. It contains data or calculations.		
Charts	Use this button to create a variety of graph types for the data in the spreadsheet.		
Equals Tool	Tests whether the entered calculation in the cells to the left of the tool has the correct answer in the cell to the right of the tool.		
Formula	Type into the formula bar to create a formula in a cell, this will calculate the value for the cells based upon the value of other cell in the spreadsheet.		
Formula Wizard	The wizard guides you in creating a variety of formulae for a cell such as calculations, totals, averages, minimum and maximum for the selected cells.		
Move Cell Tool	This tool makes a cell's contents moveable by drag-and-drop methods.		
Rows	Vertical reference points for the cells in a spreadsheet.		
Spreadsheet	A computer program that represents information in a grid of rows and columns. Any cell in the grid may contain either data or a formula that describes the value to be inserted based on the value in other cells.		
Timer	When placed in the spreadsheet, click the timer to adds 1 to the value of the cell to its right every second until it is clicked again.		

Key Knowledge

- . I know how to copy and paste within a spreadsheet.
- I know how to add a formula to a cell to make a calculation in that cell.
- I know how to use a spreadsheet to show and answer questions.





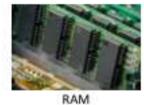
Knowledge Organiser - Computing - Hardware Investigators - Year 5

Key Vocabulary	Definition	
Motherboard	A printed circuit board containing the main parts of a computer or other device, with connectors for other circuit boards to be slotted into.	
CPU	The part of a computer in which operations are controlled.	
RAM	Allows programs to store information to help the computer run more quickly.	
Graphics Card	A printed circuit board that controls the output to a display screen.	
Network Card	An electronic device that connects a computer to a computer network.	
Monitor	A screen which displays an image generated by a computer.	
Speakers	A device for letting you hear sounds generated by the computer.	
Keyboard and Mouse	External devices that allows input.	

Key Learning

- . I know the names of the different parts that make up a computer
- . I know the function of different parts that make up a computer.

















Network Card Graphics Card

Speakers Monitor

Keyboard and Mouse

Knowledge Organiser Year 5 French Unit 5: En vacances

Key Language	English	
Où vas-tu en vacances?	Where are you going on holiday?	
Je vais	I'm going	
à la campagne	to the countryside	
à la montagne	to the mountains	
au bord de la mer	to the seaside	
au camping	to a campsite	
au parc d'attractions	to a theme park	
à Hunstanton / à Paris etc	to Hunstanton / to Paris	
en France / en Espagne etc	to France/to Spain	
J'aime ça / Je n'aime pas ça.	I like that/I don't like that.	
J'adore ça / Je déteste ça.	I love that/I hate that	
Qu'est-ce que tu vas faire?	What are you going to do?	
Je vais	I'm going	
faire du bâteau	to go boating	
faire du ski	to go skiing	
nager	to swim	
faire du sport	to do sport	
faire du vélo	to go biking	
voir mes grand-parents	to see my grandparents	
faire les manèges	to go on the fair-ground rides	



Je vais au camping à la montagne.



Je vais faire du vélo.



Je vais au bord de la mer à Hunstanton.



Je vais faire les manèges.

KEY QUESTIONS

Où vas-tu en vacances?

Where are you going on

holiday?

Qu'est-ce que tu vas faire en vacances?

What are you going to do

on holiday?

Tu aimes ça?

Do you like that?

Year 5 - Knowledge Organiser - Geography - New Zealand

Key Vocabulary	Definition	
Southern Hemisphere	The half of Earth that is south of the Equator.	
Volcano	A crater or vent through which lava, rock fragments and gases erupt from the Earth's crust.	
Geyser	A hot spring in which water boils, sending a tall column of water and steam into the air	
Tectonic plate	A massive slab of rock that moves over a liquid mantle	
Active	A volcano that has erupted in the last 10,000 years. (Can be dormant or erupting).	
Dormant	A volcano that is active but not erupting at the mome	
Extinct	Volcano that has not erupted in the last 10,000yeras, OR a species that has died out and no longer exists.	
Predator	An animal that naturally preys or hunts other animals.	

Key Knowledge

I know that New Zealand is a country in the Southern Hemisphere made up of two islands.

I know New Zealand is located on a plate boundary and so has active volcanoes.

I know Maori were the first people to live in New Zealand and have their own customs and language.

I know New Zealand has many unique animals and plants.





Wellington	Geyser	All Blacks	Kiwi	Easter Island	
				f Frenchis	
Wellington has been the capital city of New Zealand since 1865	Pohutu Geyser, which erupts up to 15 times a day and shoots hot water around 30m skywards.	The New Zealand national rugby team known as the All Blacks	A native flightless bird which is the national symbol of New Zealand	The distance between Easter Island and New Zealand is 7084km,	

Knowledge Organiser - The Industrial Revolution - History - Year Five

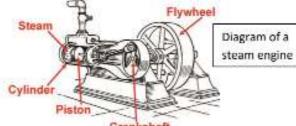
Key Vocabulary	Definition	
Industrial Revolution	A time of great change in Britain between 1750 to 1900	
Population	The number of people living in a particular place	
Invention	Something new which is created, can be an object or an idea	
Economy	The system of how money is used within a particular country	
Agriculture	The process of farming, including both growing and harvesting crops and raising animals, or livestock.	
Poverty	The lack of basic human needs such as clean water, nutrition, healthcare, education and shelter	
Industry	The process of making products by using machines and factories	
Mass production	The manufacture of a product in large numbers and at a low cost.	



Pre-industrial Britain



Post-industrial Britain



Key Knowledge

I know the 'Industrial Revolution' describes the change from a society based on hand manufacturing and human or animal power, to a society based on machinery in factories.

I know the steam engine was one of the most important inventions of the industrial revolution. I understand the how goods were transported in the Industrial Revolution.

I know industrial revolution caused cities to grow rapidly and that this, was called urbanisation I understand Victorian children played a role and had dangerous jobs during the industrial revolution.



1838 The SS Great Western, the first steamship to cross the Atlantic, leaves Bristol.

The Education Act was passed, making school

compulsory for all children aged 5-10.

1880

1761 The Duke of Bridgewater built Britain's first caral.

1764 James Watt designed the first successful steam engine.

1776 Watt and Boulton designed and built the first successful steam engine.

1825 George Stephenson invented the first passenger locomotive.

1764 James Hargreaves invented the spinning jenny, making spinning thread much quicker and more efficient.

1771

Richard Arkwright built a mill and filled it with water frames. It was claimed to be the world's first ever factory.

1779

The first bridge made from cast iron is built across the River Severn. 1830

The first ever passenger train takes people from Liverpool to Manchester 1854

The first underground railway is built in London, giving Birth to the 'tube'

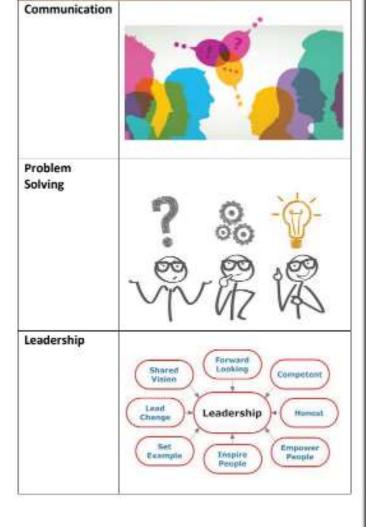


West Norfolk Academies Trust Knowledge Organiser – PE – OAA - Year Five

Key Vocabulary	Definition	
Problem Solving	The process of finding solutions to difficult or complex physical tasks.	
Outdoor and Adventurous Activities	Outdoor and Adventurous Activities present mental and physical challenges. They encourage people to work in a team, building on trust and developing skills to solve problems, either individually or as a group.	
Fitness	The condition of being physically fit and healthy. OAA provides many opportunities for people to develop their fitness.	
Orienteering	Orienteering involves navigating between set points by using a map. It can sometimes involve compass work and is usually done as a race. It can be done in lots of places such as woodland and school fields. It can be good for helping to improve fitness.	

Skill development		
Communication	Understand that communication skills involve talking and listening when sharing ideas. Be able to discuss solutions to problems calmly and be prepared to adapt your ideas to make the best possible solution.	
Problem Solving	Be open to trying many different methods in order to solve one problem. Sometimes the first way to solve it isn't always the best way. Try to think outside the box!	
Leadership	Take on the role of the leader in different situations. You will need to use lots of different skills in order to help your team to achieve different outcomes.	





Skills





Knowledge Organiser - PSHE - Relationships - Year Five

Key Vocabulary		
Self-esteem	A feeling of being happy with your own character and abilities.	
Attributes	To regard a quality or feature as belonging to somebody/something	
Characteristics	A typical feature or quality that something/somebody has,	
Compromise	An agreement made between two people or groups in which each side gives up some of the things they want so that both sides are happy at the end.	
Pressure	The act of trying to persuade or to force somebody to do something	
Jealousy	Feeling angry or unhappy because somebody you like or love is showing interest in somebody else.	
Bullying	The use of strength or power to frighten or hurt people. This can be face to face or through the use of technology.	
Safety	To feel safe and protected from danger or harm.	

Key Knowledge

I have an accurate picture of who I am as a person in terms of my characteristics and personal qualities

I understand how it feels to be attracted to someone and what having a boyfriend / girlfriend might mean.

I understand how to stay safe when using technology to communicate with my friends.



Reflective questions Ask me this...

What does friendship mean to you?

How do you know who you are talking to online?

What are good ways I can keep myself safe when using technology?





R.E. Year 5 Summer 1 Knowledge Organiser Enquiry: What is the best way for a Sikh to show commitment to God?

Key vocabulary	Definition	
Sikh	A person who follows the religion of Sikhism	
Commitment	To promise to be loyal to someone or something	
The 5 Ks	Khalsa Sikhs wear five symbols – called the five Ks, or Panj Kakka - to show their devotion to Sikhism.Kangha- comb, kirpan- sword, kara – bracelet, kacheri- shorts and Kesh – uncut hair	
Amrit Ceremony	The Amrit initiation ceremony involves the drinking of Amrit (sugar water stirred with a dagger) in the presence of 5 Khalsa Sikhs as well as the Guru Grant Sahib	
Guru Granth Sahib	Sikh Holy Book	
Gurdwara	Sikh worship place	
Sewa	Helping others – could be donations of money, good or time	

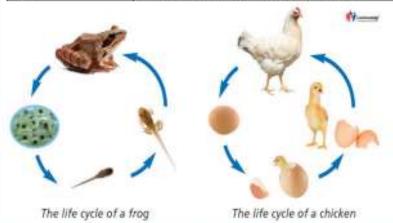
Key Knowledge		
I understan	d the term commitment.	
I know Sikh	's dress in a way to show commitment to God	
I know the means.	3 Golden rules of Sikhism and can explain what Seva	
	n why it is important to Sikhs to show their commitment to n describe different ways they choose to do this.	
I can give n	ny opinion on what I think Sikhs should do to show nt to God and explain why	
I know that	religions can influence how people live	

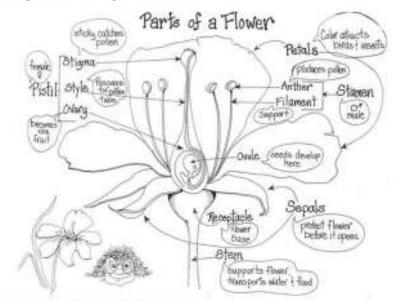




Knowledge Organiser - Science - Year 5 - Life Cycles and Reproduction

Key Vocabulary	Definition			
life cycle	development of an organism from birth through reproduct to death			
reproduce	to make again or make a copy of			
reproduction	the process of making a copy of			
asexual	non-sexual reproduction			
spore	seed released by a fungus			
cloning	to make an exact copy of the parent			
regeneration	the ability to replace lost cells or even lost body parts			
gametes	male or female germ cell needed for sexual reproduction			
internal fertilisation	sperm and egg join inside the body of the female parent			
external fertilisation	sperm and egg join outside the bodies of the parents			
embryo	a developing organism			
zygote	a fertilised egg			
gestation	the carrying of an embryo inside a female			
monocot	a flowering plant whose seed only contains one embryonic le			
stamen	the male reproductive organs of a plant			
pistil	the female reproductive organs of a plant			







Key Knowledge

I know that plants can reproduce asexually.

I know the parts of a flowering plant.

I understand seeds are dispersed by animals, humans, water, wind or the explosion of the seed pod.

I know about the life cycle and reproductive system of animals.